

Ex3: $f(x) = -(x^2 - 5)(2x - 3)(x + 1)^3$

Deg 6

max turning 5

x-int

y-int

$$(x^2 - 5) = 0$$

$$f(0) = -15$$

$$x^2 = 5$$

$$x = \pm\sqrt{5} \text{ cross}$$

$$x = -\frac{3}{2} \text{ cross}$$

$$x = -1 \text{ flex} \quad \underline{\text{end}} \downarrow \downarrow$$

